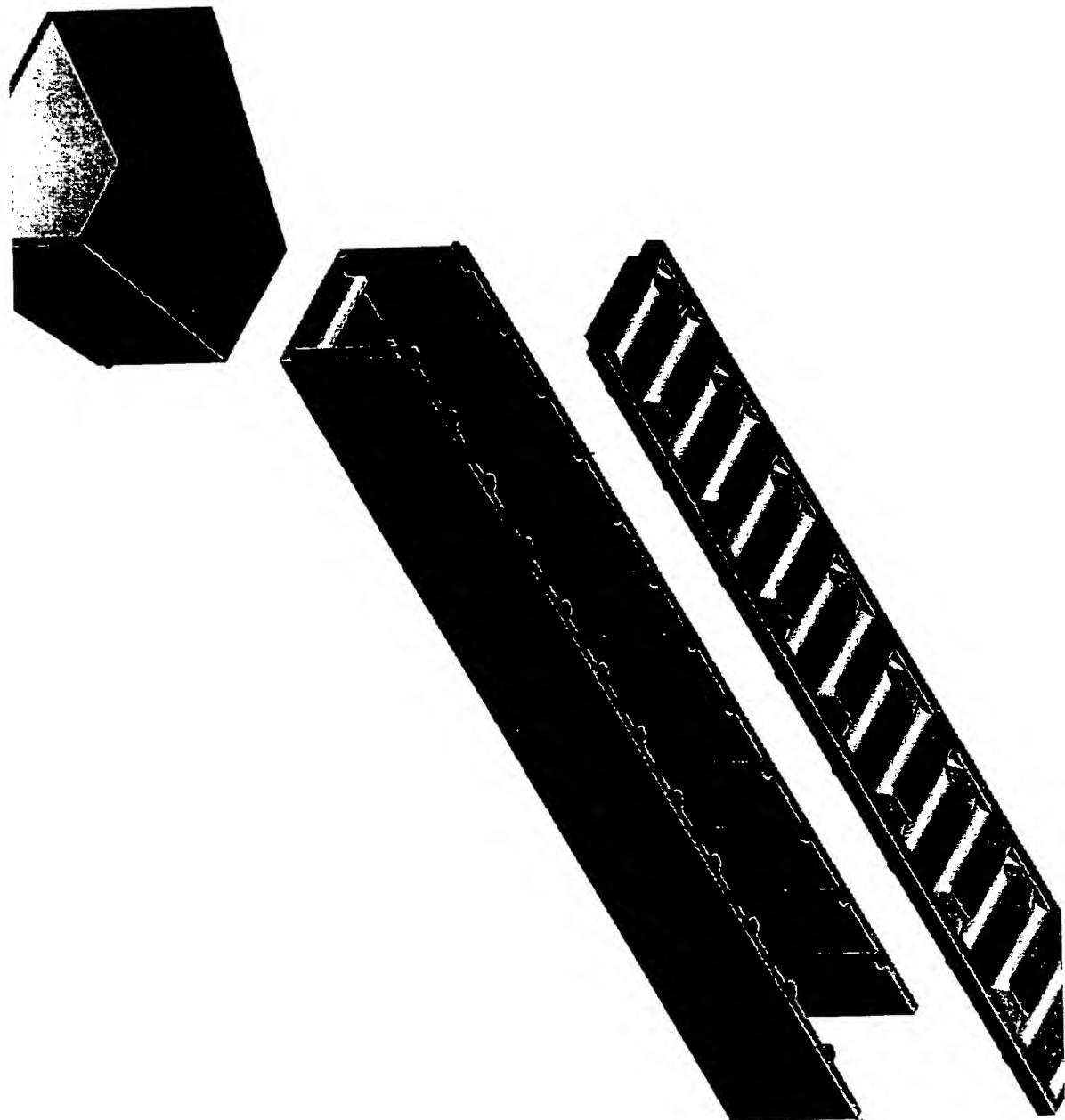


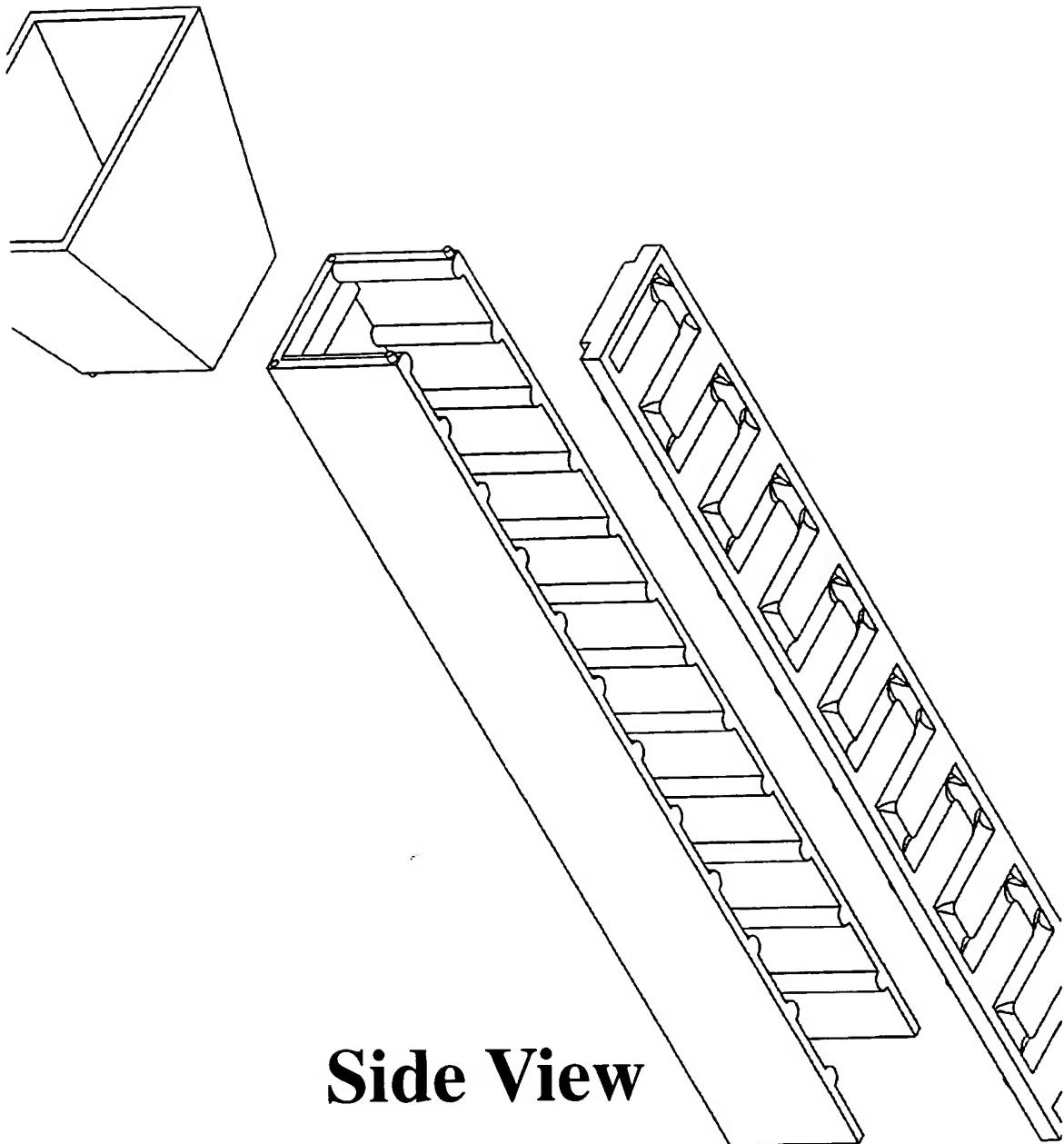
Perspective View



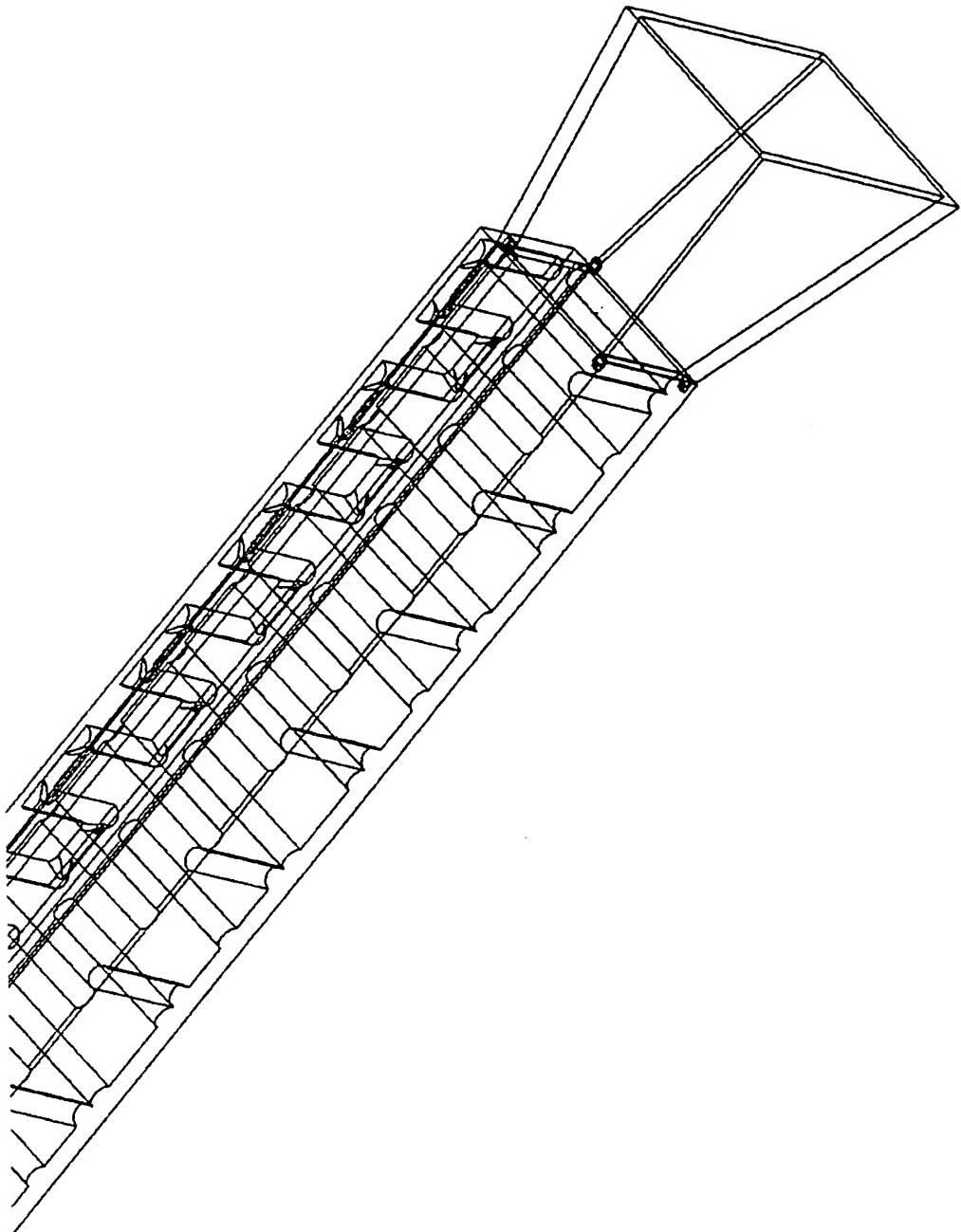
Top View



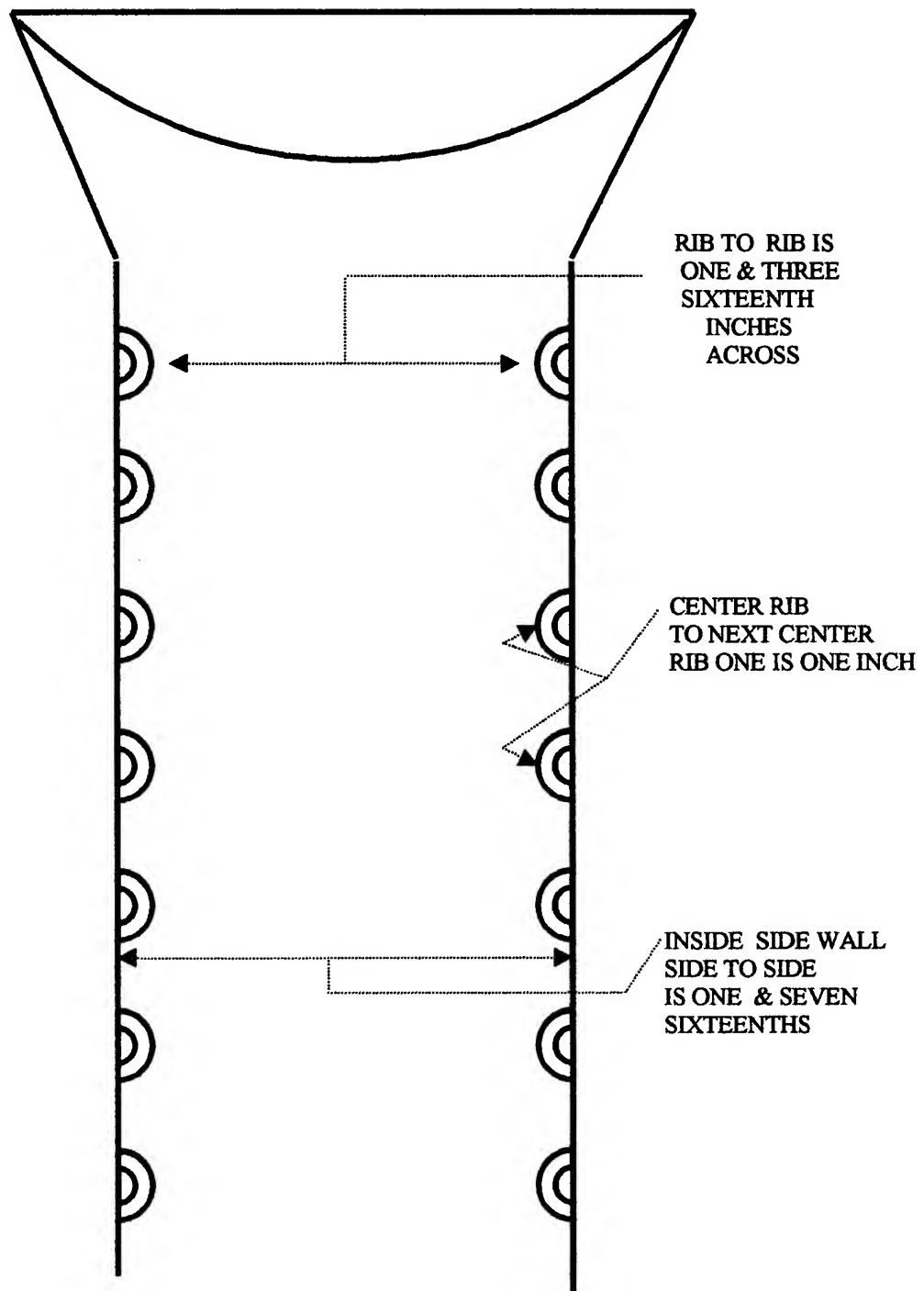
Back View



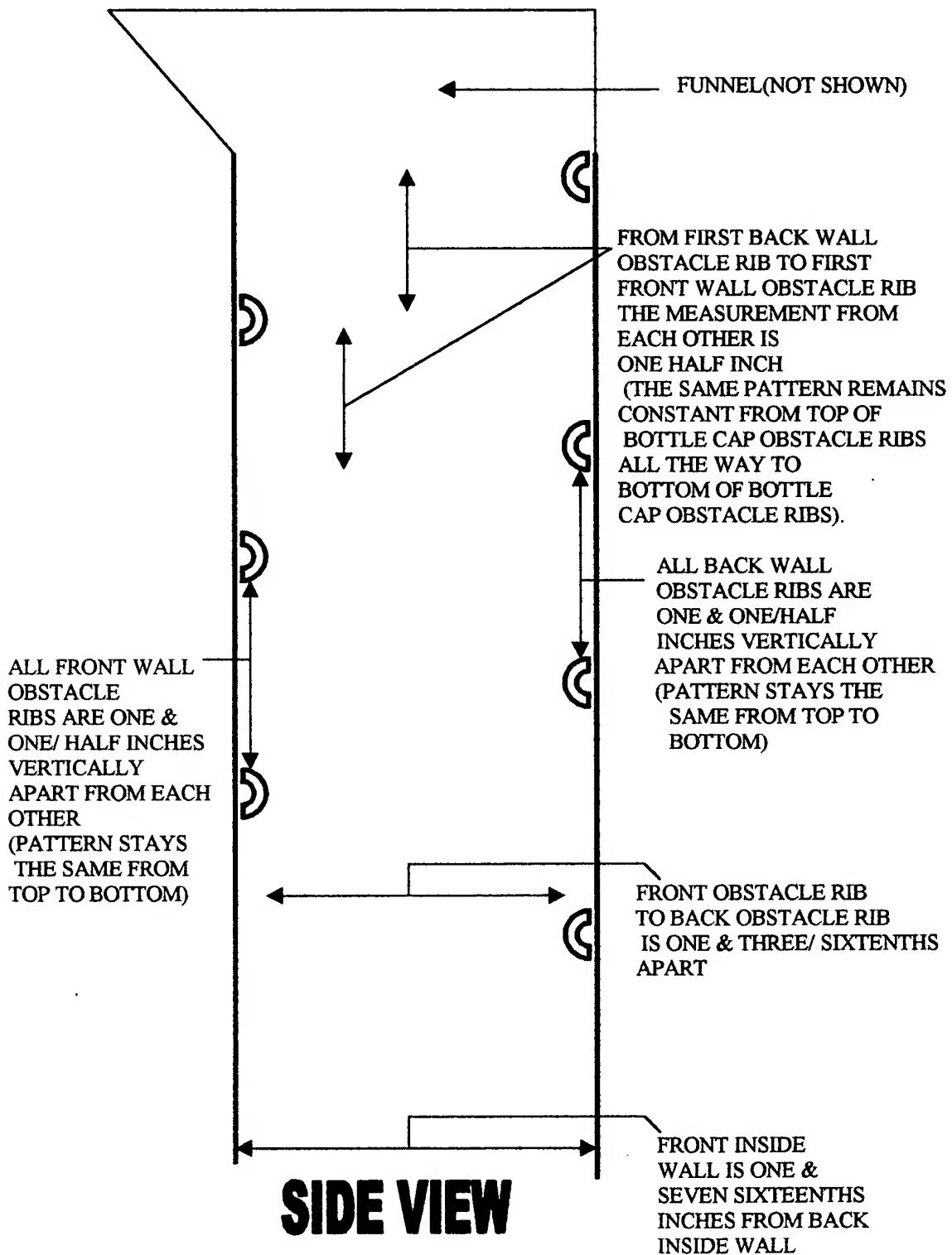
Side View



Cross Sectional View



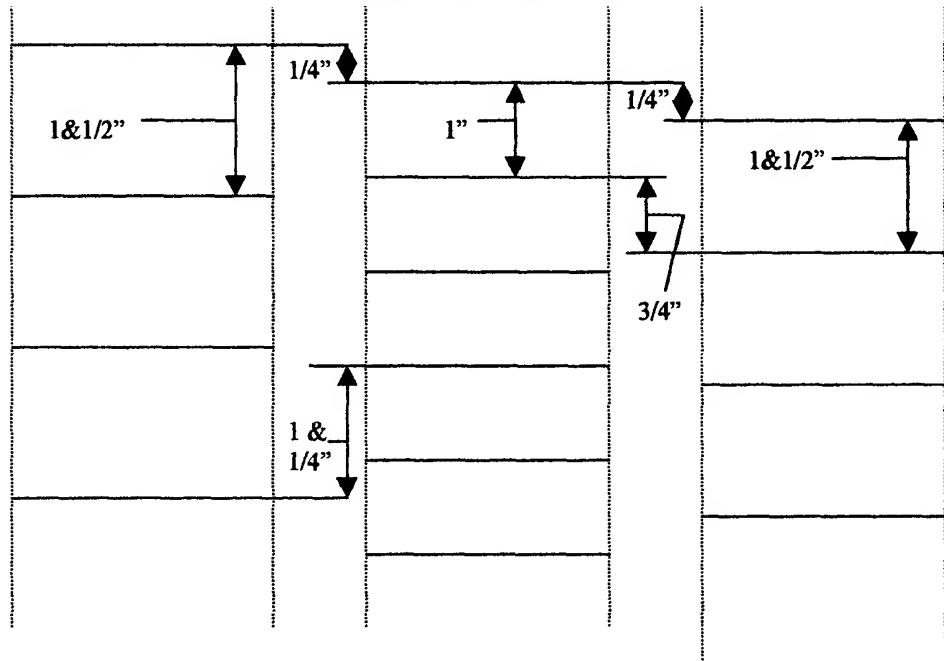
FRONT VIEW



THIS DRAWING SHOWS ALL FOUR WALLS VIEWED AS IF THEY WERE UNFOLDED FLAT TO GIVE A CROSS SECTIONAL VIEW OF THE SYMMETRICAL PATTERN THAT IS THE INSIDE DESIGN OF THE BOTTLE CAP TUNNEL

NOTE:
THIS PATTERN COULD BE ACCOMPLISHED IN DIFFERENT MATHEMATICAL CONFIGURATIONS BUT THIS IS DESIGN THAT I CHOSE TO ACCOMPLISH THE BOTTLE CAP TUNNEL

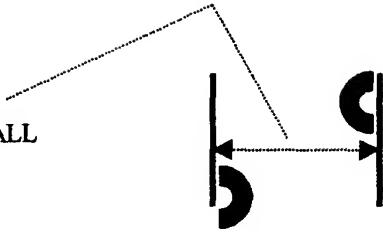
FRONT OBSTACLE RIBS SIDE OBSTACLE RIBS (SIDES ARE IDENTICAL) BACK OBSTACLE RIBS



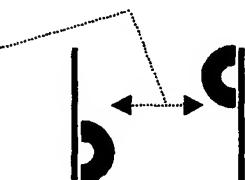
UNFOLDED VIEW OF OBSTACLE RIB PATTERN

**INSIDE MEASUREMENTS
FRONT TO BACK**

1) INSIDE MEASUREMENT
FRONT WALL TO BACK WALL
1 & 7/16 INCHES

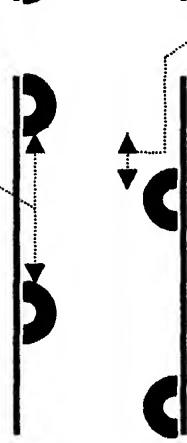


2) OBSTACLE RIBS ARE 1 & 3/16 INCHES
APART FROM FRONT TO BACK



3) RIBS ARE 1 & 1/2 INCHES
FROM FIRST OBSTACLE RIB
TO NEXT OBSTACLE RIB
(THIS PATTERN REPEATS
FROM TOP OF BOTTLE CAP
OBSTACLE RIBS TO BOTTOM
OF BOTTLE CAP OBSTACLE RIBS)

4) RIBS ON FRONT
SIDE WALL ARE
1/2 INCH FROM
RIBS ON BACK
SIDE OF WALL
(REPEAT PATTERN
TO BOTTOM)

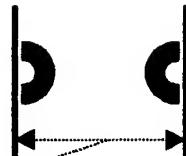


4) RIBS ON FRONT
SIDE WALL ARE
1/2 INCH FROM
RIBS ON BACK
SIDE OF WALL
(REPEAT PATTERN
TO BOTTOM)

**INSIDE
MEASUREMENT
FRONT TO BACK**

INSIDE MEASUREMENTS
SIDE TO SIDE

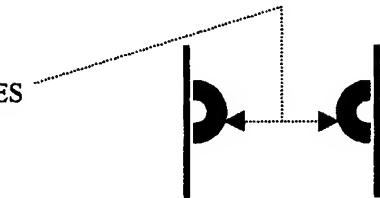
1) INSIDE MEASUREMENT
SIDE WALL TO SIDE WALL
1 & 7/16 INCHES



2) OBSTACLE RIBS ARE
1/8 INCH HALF CIRCLES



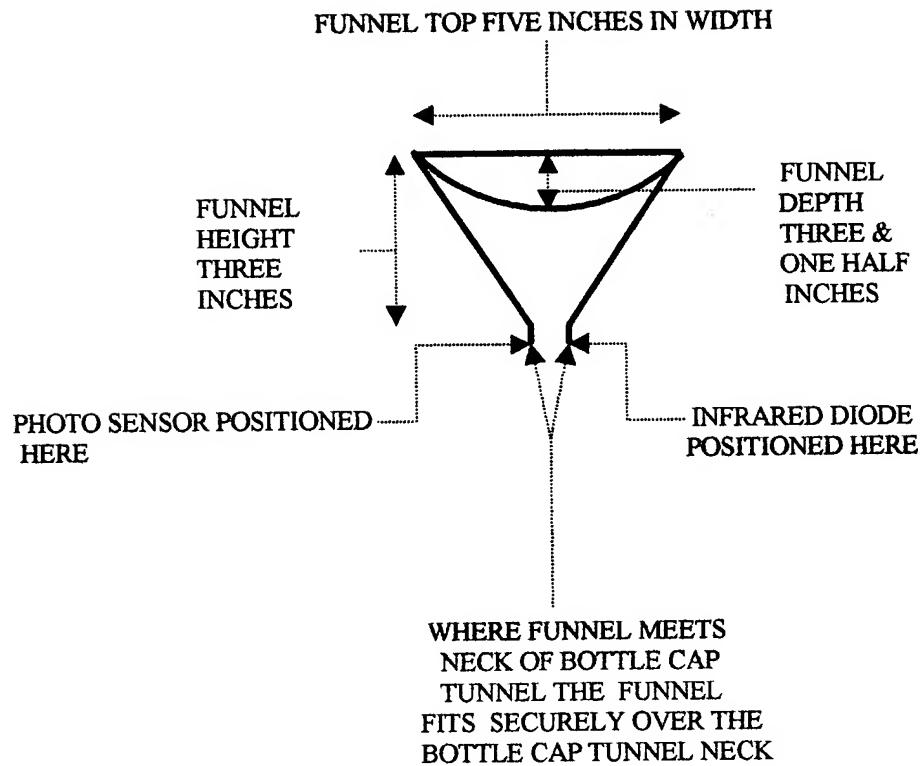
3) OBSTACLE RIBS ARE 1 & 3/16 INCHES
APART FROM SIDE TO SIDE



4) OBSTACLE RIBS ARE 1 INCH FROM FIRST
OBSTACLE RIB TO NEXT OBSTACLE RIB
(REPEAT PATTERN FROM TOP TO BOTTOM)

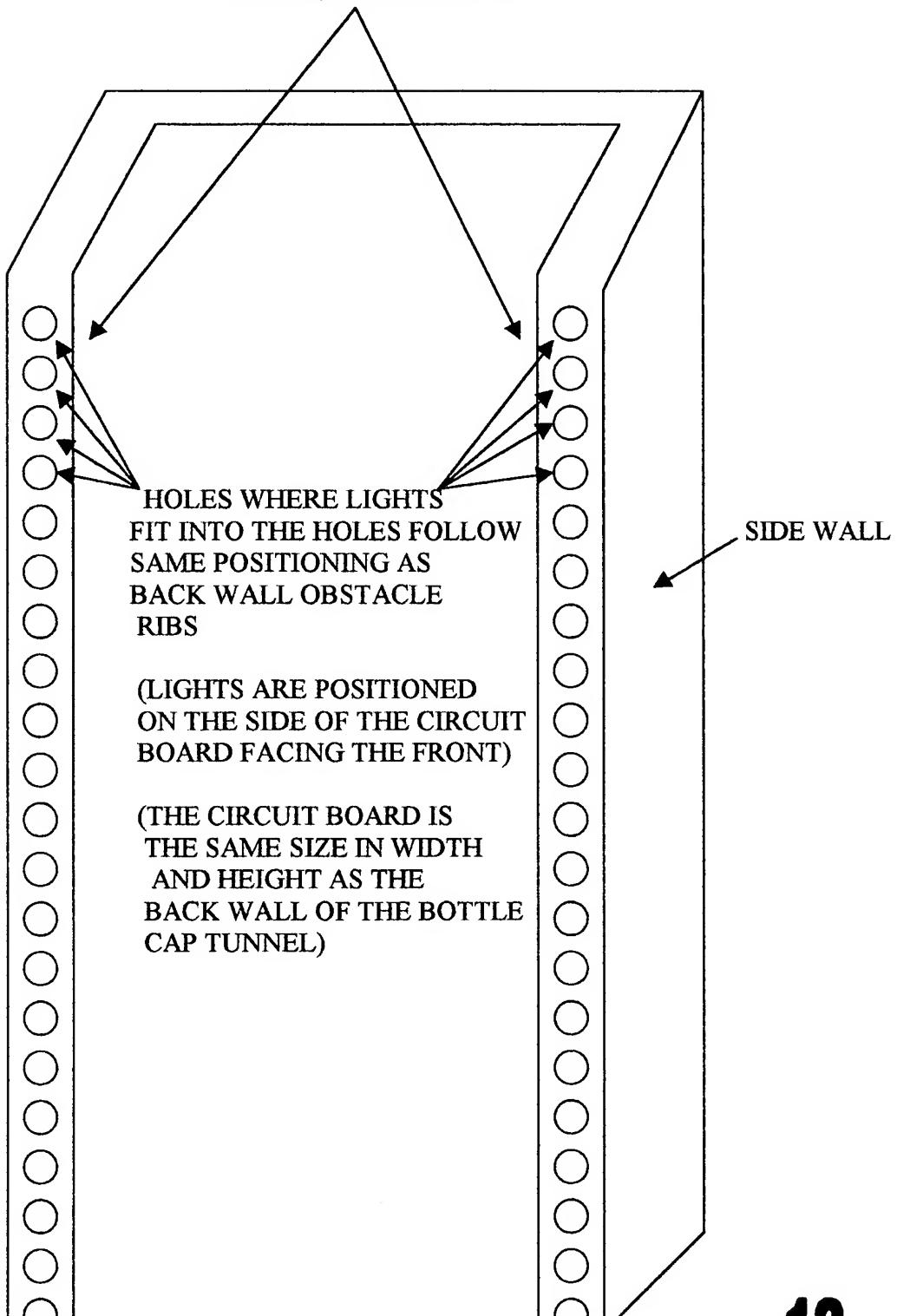


**INSIDE
MEASUREMENT
SIDE TO SIDE**



VIEW OF FUNNEL

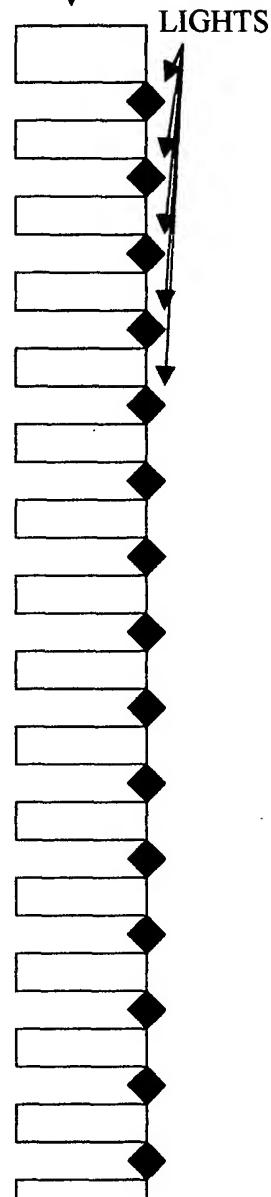
BACK OF SIDE WALLS



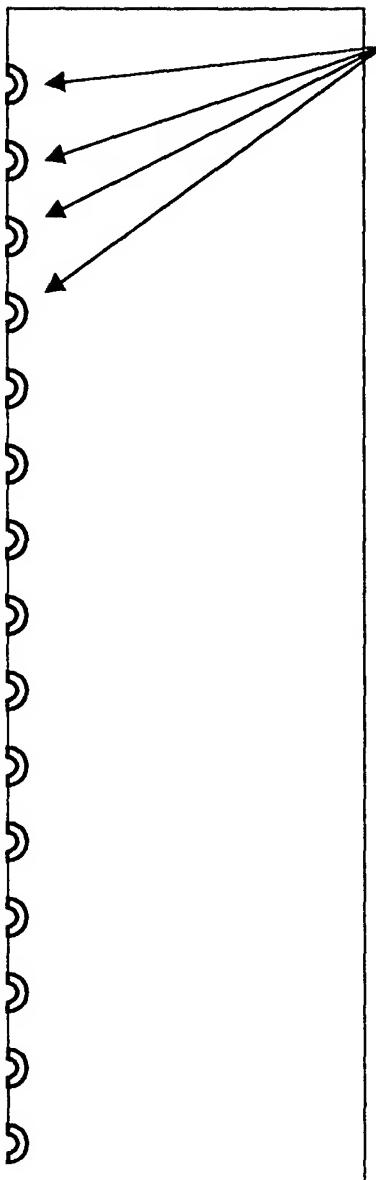
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LIGHT PLACEMENT VIEW

(THE SIDE OF BACK WALL)



(SIDE WALL)



HOLES THAT LIGHTS
FIT INTO

The Lights are positioned at the edge of the back wall. The Lights will fit into holes that are positioned on the back part of the side wall.

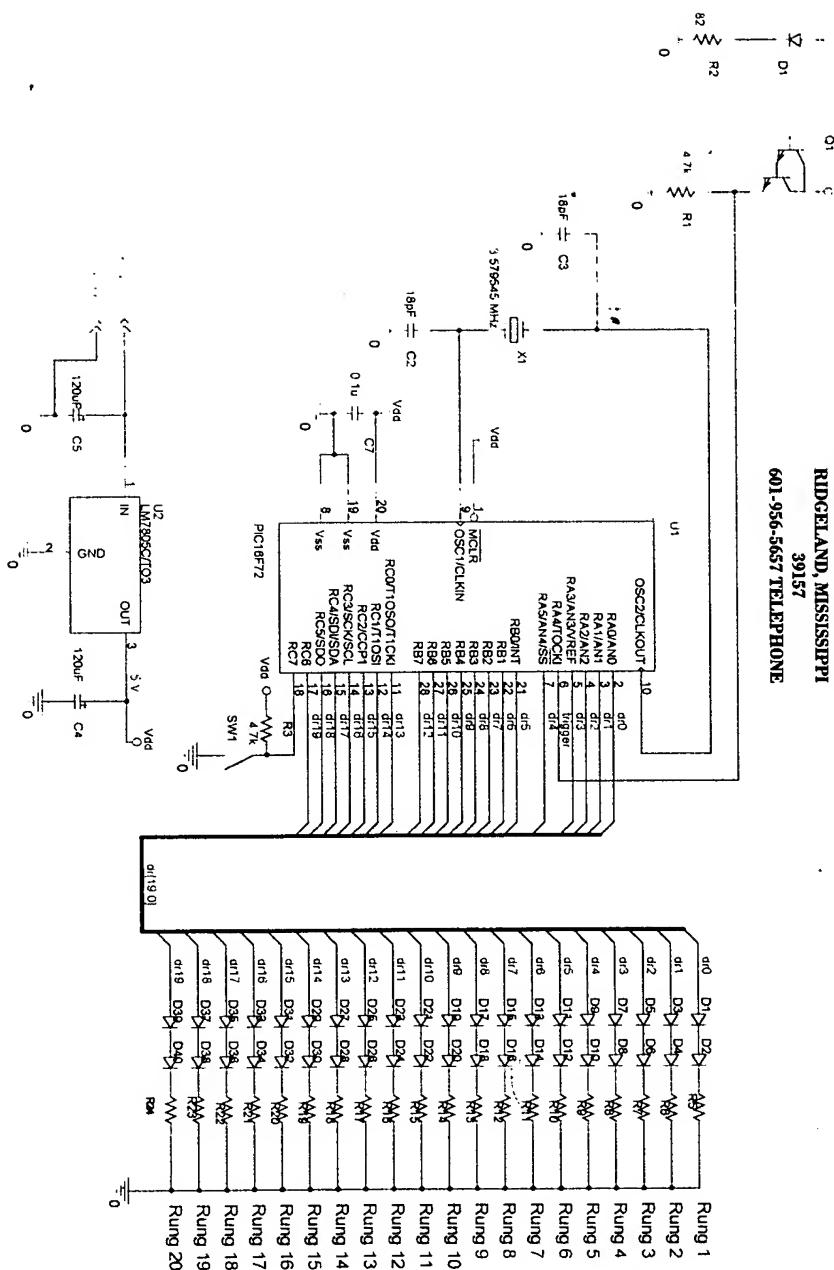
The Lights and the holes follow the same positioning as the back obstacle ribs.

LIGHT PLACEMENT SIDE VIEW

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WARREN MILLET
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Note: Resistors R5-R24 are selected according to the LED type used. LEDs with forward drops > 2.0 V may require no resistors (replace with jumpers).